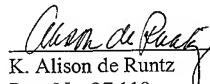


REMARKS

During the filing of this application, it was discovered that the application contained two pages marked "48," the first being the abstract page and the second being the first page of Appendix A, and that the first page of Appendix B was marked "49." The replacement Appendix A is numbered A1-A6 and the replacement Appendix B is numbered B1-B6. No new matter has been added to the specification by virtue of this amendment.

Respectfully submitted,

  
\_\_\_\_\_  
K. Alison de Runtz  
Reg. No. 37,119  
10/17/13  
Date

PARSONS HSUE & DE RUNTZ LLP  
655 Montgomery Street, Suite 1800  
San Francisco, CA 94111  
(415) 318-1160  
(415) 693-0194 fax



Clean Copy

RECEIVED  
DEC 31 2003  
TC 1700

ATTACHMENT A

Material Safety Data Sheet for

MICROPLANAR™ CMP9000™

sold by EKC Technology, Inc. of Hayward, CA



# Material Safety Data Sheet

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier:	MICROPLANAR™ CMP9000™
General Use:	Metal CMP
Product Description:	Slurry
MANUFACTURER:	EMERGENCY PHONE NUMBERS:
EKC Technology, Inc.	(800) 424-9300
2520 Barrington Court	CHEMTREC
Hayward, CA 94545	24 Hours/day, 7 days/week
(510) 784-9105	

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

Colloidal Silica	WT. % 30-35	CAS Registry # Trade Secret
------------------	----------------	--------------------------------

	EXPOSURE LIMITS 8 hrs. TWA (mg/m <sup>3</sup> )		
	OSHA PEL	ACGIH TLV	OTHER
Colloidal Silica	2.67	10	None

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

Translucent white slurry  
May cause eye, skin, and respiratory tract irritation

### POTENTIAL HEALTH EFFECTS

#### INHALATION

No adverse effects known.

#### EYE CONTACT

May cause irritation with temporary discomfort, mild redness, and dryness.

#### SKIN CONTACT

May cause irritation and dryness.

#### INGESTION

No adverse effects known.

#### TARGET ORGANS

Skin, eyes

#### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Overexposure may aggravate existing respiratory or skin conditions.

#### CARCINOGENICITY

National Toxicology Program (NTP): Not listed

 EKC Technology, Inc.  
A ChemFirst Company

2520 Barrington Court  
Hayward, CA 94545  
tel. +1 510 784-9105  
facs. +1 510 784-9181

Name: MICROPLANAR™ CMP9000™

Revision New- Prepared May 13, 1999

Page 2 of 5

IARC Monographs: Not listed  
OSHA: Not listed  
ACGIH: Not listed

**4. FIRST AID MEASURES**

**INHALATION**

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.

**EYE CONTACT**

Flush eyes with water. If redness and irritation persist, contact a physician.

**SKIN CONTACT**

Flush skin with water. If redness and irritation persist, contact a physician.

**INGESTION**

Do not induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.

**NOTE TO PHYSICIAN**

Treat symptomatically as required by the condition of the patient.

**5. FIRE FIGHTING MEASURES**

Flashpoint:	Not flammable
Method:	None
Flammable Limits in Air % by volume	Lower: None Upper: None
Autoignition Temperature:	Not available
Extinguishing Media:	Material Is not flammable.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

None known.

**FIRE FIGHTING INSTRUCTIONS**

Use water spray to cool containers and fire exposed surfaces. Shut off fuel to fire if possible to do so without hazard.

**FIRE FIGHTING EQUIPMENT**

Standard fire-fighting bunker gear.

**HAZARDOUS COMBUSTION PRODUCTS**

None known

**6. ACCIDENTAL RELEASE MEASURES**

**SPILL OR LEAK PROCEDURES**

If material becomes dry, wet before removal. Contain spill with absorbent material. Transfer absorbent and other contaminated materials to a UN approved covered container for disposal. Consult with Federal, State, and local regulatory agencies to determine acceptable clean-up level. Comply with Federal, State, and local regulations on reporting releases.

**7. HANDLING AND STORAGE**

**STORAGE TEMPERATURE**

Storage in a cool, dry, well-ventilated area at 40° - 90°F (5° - 32°C) is recommended.

Name: MICROPLANAR™ CMP9000™

Revision New- Prepared May 13, 1999

Page 3 of 5

**GENERAL**

Keep in original closed containers.  
Prevent skin and eye contact.  
Thorough showering at the end of the work shift is strongly recommended.  
Work clothes should be laundered daily.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**PERSONAL PROTECTION**

**RESPIRATORY PROTECTION**

No respiratory protection is normally required. However, if material becomes dry and dust is present, use a NIOSH approved dust respirator

**PROTECTIVE CLOTHING**

Prevent skin contact. Use rubber or latex gloves.

**EYE/FACE PROTECTION**

Use safety glasses or chemical goggles.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Vapor Pressure:	Not available	Freezing Point:	32°F (0°C)
Vapor Density:	Not available	Appearance:	White
Specific Gravity:	1.2-1.3	Boiling Point:	212°F (0°C)
Evaporation Rate:	Not available	Odor:	None
Solubility in Water:	None	Physical State:	Liquid dispersion
pH:	4-9		

**10. STABILITY AND REACTIVITY**

**GENERAL**

This product is stable at normal temperatures and conditions of storage.

**INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID**

Freezing.

**HAZARDOUS DECOMPOSITION**

None known.

**HAZARDOUS POLYMERIZATION**

Will not normally occur.

**11. TOXICOLOGICAL INFORMATION**

**INHALATION**

No additional information available.

**EYE CONTACT**

No additional information available.

**SKIN CONTACT**

No additional information available.

**INGESTION**

LD<sub>50</sub>, rat: 3160 mg/kg, practically non-toxic.

**GENOTOXICITY**

No information available.

**TARGET ORGANS**

Skin, eyes, lungs.

**12. ECOLOGICAL INFORMATION**

**FATE**

No information available

**AQUATIC TOXICITY**

No information available

**13. DISPOSAL CONSIDERATIONS**

**DISPOSAL METHODS**

Consult 40 CFR, Parts 261 and 268, State, and local regulations for guidance on disposal of this product. Incineration at a facility with proper Federal and State issued permits is the recommended method for disposal.

**CONTAINER DISPOSAL**

Empty containers retain product residue. Observe all hazard precautions. Keep away from heat, sparks, and flames. Do not distribute, make available, or reuse empty containers except for storage and shipment of original product. Remove all hazardous product residue, and puncture or otherwise destroy empty containers before disposal. Consult 40 CFR, Parts 261 and 268 for guidance on disposal.

**14. TRANSPORT INFORMATION**

**DOT/IMO/ICAO/IATA**

Proper shipping name      Not Regulated

**15. REGULATORY INFORMATION**

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

Components of this product are listed on the TSCA Inventory.

Name: MICROPLANAR™ CMP9000™

Revision New- Prepared May 13, 1999

Page 5 of 5

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 Hazard Categories  
313

None

This product is not subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION AND LIABILITY ACT)

Reportable Quantity (RQ): None

We recommend you contact local authorities to determine if there may be other local reporting requirements.

**16. OTHER INFORMATION**

Exposure to Microplanar™ CMP9000™ should be kept to the lowest level possible. This material is for industrial use. Use only under the supervision of a technically qualified individual.

LABEL INFORMATION

NFPA CODES

Health	1
Fire	0
Reactivity	0
Specific Hazard	None

REVISION SUMMARY

Rev. New

Prepared by: Steven C. Dawson, CIH  
Manager, Industrial Hygiene & Health

The information included in this document is taken from sources, or based on data believed to be reliable and given in good faith. No warranty is made, however, as to the absolute correctness of any of this information, or that additional or other measures may not be required under particular conditions. The data in this Material Safety Data Sheet relates only to the specific material designated and does not relate to use in combination with any other material or in any process. Please refer to the OSHA Hazard Communication Standard 29 CFR 1910.1200 for guidance in the use of this information.

## ATTACHMENT B

Material Safety Data Sheet for  
MICROPLANAR™ CMP9001™  
sold by EKC Technology, Inc. of Hayward, CA

**1. PRODUCT AND COMPANY IDENTIFICATION**

Product Identifier: **MICROPLANAR™ CMP9001™**  
 General Use: Tungsten CMP  
 Product Description: Aqueous Alumina Slurry

**MANUFACTURER:**  
 EKC Technology, Inc.  
 2520 Barrington Court  
 Hayward, CA 94545  
 (510) 784-9105

**EMERGENCY PHONE NUMBERS:**  
 (800) 424-9300  
 CHEMTREC  
 24 Hours/day, 7 days/week

**2. COMPOSITION / INFORMATION ON INGREDIENTS**

	<b>WT.%</b>	<b>CAS Registry #</b>	
Alumina	Proprietary	Trade Secret	
<b>EXPOSURE LIMITS 8 hrs. TWA (mg/m<sup>3</sup>)</b>			
Alumina	<b>OSHA PEL</b> 15	<b>ACGIH TLV</b> 10	<b>DFG MAK</b> 6

**3. HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW**

Milky white suspension with no odor. May cause eye irritation and drying of the skin.

**POTENTIAL HEALTH EFFECTS****INHALATION**

No adverse effects known.

**EYE CONTACT**

May cause irritation.

**SKIN CONTACT**

May cause drying of the skin.

**INGESTION**

Not expected to be a hazard by this route.

**TARGET ORGANS**

Skin, eyes

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

Overexposure may aggravate existing skin conditions.

**CARCINOGENICITY**

National Toxicology Program (NTP):	Not listed
IARC Monographs:	Not listed
OSHA:	Not listed
ACGIH:	Not listed



2520 Barrington Court  
 Hayward, CA 94545  
 tel. +1 510 784-9105  
 fax. +1 510 784-9181

#### 4. FIRST AID MEASURES

**INHALATION**

None required.

**EYE CONTACT**

Immediately flush eyes with water. Have eyes examined and treated by a physician.

**SKIN CONTACT**

Flush skin with water. If redness or irritation occurs, seek medical attention.

**INGESTION**

Flush mouth with water. Consult a physician.

**NOTE TO PHYSICIAN**

Treat symptomatically as indicated by the condition of the patient.

#### 5. FIRE FIGHTING MEASURES

Flashpoint:	None
Method:	None
Flammable Limits in Air % by volume	Lower: None Upper: None
Autoignition Temperature:	None
Extinguishing Media:	None required.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

No special precautions are necessary.

**FIRE FIGHTING INSTRUCTIONS**

Non-flammable

**FIRE FIGHTING EQUIPMENT**

Non-flammable

**HAZARDOUS COMBUSTION PRODUCTS**

None

#### 6. ACCIDENTAL RELEASE MEASURES

**SPILL OR LEAK PROCEDURES**

If material becomes dry, wet before removal. Contain spill with absorbent material. Transfer absorbent and other contaminated materials to a UN approved covered container for disposal. Consult with Federal, State, and local regulatory agencies to determine acceptable clean-up levels. Comply with Federal, State, and local regulations on reporting releases.

#### 7. HANDLING AND STORAGE

**STORAGE TEMPERATURE**

Do not store below 32°F (0°C).

**GENERAL**

Keep in original closed containers.  
Prevent skin and eye contact.  
Thorough showering at the end of the work shift is strongly recommended.  
Work clothes should be laundered daily.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****PERSONAL PROTECTION****RESPIRATORY PROTECTION**

No respiratory protection is normally required. However, if material becomes dry and dust is present, use a NIOSH approved dust respirator.

**PROTECTIVE CLOTHING**

Prevent skin contact. Wear chemical resistant gloves.

**EYE/FACE PROTECTION**

Use safety glasses or chemical goggles.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Vapor Pressure:	Not available	pH:	8
Vapor Density:	>1 (Air = 1)	Appearance:	Milky-white
Specific Gravity:	1.13 @ 25°C	Boiling Point:	212°F (100°C)
Evaporation Rate:	Not available	Odor:	None
Solubility in Water:	Insoluble solids	Physical State:	Slurry

**10. STABILITY AND REACTIVITY****GENERAL**

This product is stable at normal temperatures and conditions of storage.

**INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID**

None have been identified.

**HAZARDOUS DECOMPOSITION**

None

**HAZARDOUS POLYMERIZATION**

Will not normally occur.

**11. TOXICOLOGICAL INFORMATION****DATA FOR MICROPLANAR™ CMP9001™****INHALATION**

No information is available.

**EYE CONTACT**

No information is available.

**SKIN CONTACT**

No information is available.

**INGESTION**

No information is available.

**GENOTOXICITY**

No information is available.

**TARGET ORGANS**

Eyes and skin

**12. ECOLOGICAL INFORMATION****DATA FOR MICROPLANAR™ CMP9001™****FATE**

Contains inert mineral product that is insoluble in water and settles easily.

**AQUATIC TOXICITY**

No information is available.

**13. DISPOSAL CONSIDERATIONS****DISPOSAL METHODS**

Consult 40 CFR, Parts 261 and 268, State, and local regulations for guidance on disposal of this product.  
Incineration at a facility with appropriate permits or authorizations is the recommended method of disposal.

**CONTAINER DISPOSAL**

Empty containers retain product residue. Observe all hazard precautions. Do not distribute, make available, or reuse empty containers except for storage and shipment of original product. Remove all hazardous product residue, and puncture or otherwise destroy empty containers before disposal.

**14. TRANSPORT INFORMATION****IMO/ICAO/IATA**

Proper shipping name	Not regulated
Hazard Class	None
Identification number	None
Packing group	None
Labels required	None
IMDG page number	None

**15. REGULATORY INFORMATION****TSCA (TOXIC SUBSTANCE CONTROL ACT)**

Components of this product are listed on the TSCA Inventory.

We recommend you contact local authorities to determine if there may be other local reporting requirements.

**SARA TITLE III (Superfund Amendments and Reauthorization Act)**

311/312	None
Hazard	
Categories	

This product contains no substances that are subject to reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

### CERCLA (Comprehensive Response Compensation and Liability Act)

Not reportable.

We recommend that you contact local authorities to determine if there may be other local reporting requirements.

## 16. OTHER INFORMATION

Because the long-term human health effects from exposure to MICROPLANAR™ CMP9001™ have not been fully evaluated, exposure should be kept to the lowest level possible.

This material is for industrial use. Use only under the supervision of a technically qualified individual.

### LABEL INFORMATION

#### NFPA CODES

Health	1
Fire	0
Reactivity	0
Specific Hazard	None

#### REVISION SUMMARY

Rev. New Initial MSDS

Prepared by: Steven C. Dawson, CIH  
Manager, Industrial Hygiene & Health

The information included in this document is taken from sources, or based on data believed to be reliable and given in good faith. No warranty is made, however, as to the absolute correctness of any of this information, or that additional or other measures may not be required under particular conditions. The data in this Material Safety Data Sheet relates only to the specific material designated and does not relate to use in combination with any other material or in any process.

**Marked Copy**

**ATTACHMENT A**

Material Safety Data Sheet for  
MICROPLANAR™ CMP9000™  
sold by EKC Technology, Inc. of Hayward, CA

A1



# Material Safety Data Sheet

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: MICROPLANAR™ CMP9000™  
General Use: Metal CMP  
Product Description: Slurry

MANUFACTURER: EMERGENCY PHONE NUMBERS:  
EKC Technology, Inc.  
2520 Barrington Court  
Hayward, CA 94545  
(510) 784-9105

(800) 424-9300  
CHEMTREC  
24 Hours/day, 7 days/week

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

	WT. %	CAS Registry #
Colloidal Silica	30-35	Trade Secret

	EXPOSURE LIMITS 8 hrs. TWA (mg/m <sup>3</sup> )		
	OSHA PEL	ACGIH TLV	OTHER
Colloidal Silica	2.67	10	None

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

Translucent white slurry  
May cause eye, skin, and respiratory tract irritation

### POTENTIAL HEALTH EFFECTS

#### INHALATION

No adverse effects known.

#### EYE CONTACT

May cause irritation with temporary discomfort, mild redness, and dryness.

#### SKIN CONTACT

May cause irritation and dryness.

#### INGESTION

No adverse effects known.

#### TARGET ORGANS

Skin, eyes

#### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Overexposure may aggravate existing respiratory or skin conditions.

#### CARCINOGENICITY

National Toxicology Program (NTP): Not listed

 EKC Technology, Inc.  
A ChemFirst Company

2520 Barrington Court  
Hayward, CA 94545  
tel. +1 510 784-9105  
facsimile +1 510 784-9181

Name: MICROPLANAR™ CMP9000™

Revision New- Prepared May 13, 1999

Page 2 of 5

IARC Monographs:  
OSHA:  
ACGIH:

Not listed  
Not listed  
Not listed

**4. FIRST AID MEASURES**

**INHALATION**

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.

**EYE CONTACT**

Flush eyes with water. If redness and irritation persist, contact a physician.

**SKIN CONTACT**

Flush skin with water. If redness and irritation persist, contact a physician.

**INGESTION**

Do not induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.

**NOTE TO PHYSICIAN**

Treat symptomatically as required by the condition of the patient.

**5. FIRE FIGHTING MEASURES**

Flashpoint:	Not flammable
Method:	None
Flammable Limits in Air % by volume	Lower: None Upper: None
Autoignition Temperature:	Not available
Extinguishing Media:	Material is not flammable.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

None known.

**FIRE FIGHTING INSTRUCTIONS**

Use water spray to cool containers and fire exposed surfaces. Shut off fuel to fire if possible to do so without hazard.

**FIRE FIGHTING EQUIPMENT**

Standard fire-fighting bunker gear.

**HAZARDOUS COMBUSTION PRODUCTS**

None known

**6. ACCIDENTAL RELEASE MEASURES**

**SPILL OR LEAK PROCEDURES**

If material becomes dry, wet before removal. Contain spill with absorbent material. Transfer absorbent and other contaminated materials to a UN approved covered container for disposal. Consult with Federal, State, and local regulatory agencies to determine acceptable clean-up level. Comply with Federal, State, and local regulations on reporting releases.

**7. HANDLING AND STORAGE**

**STORAGE TEMPERATURE**

Storage in a cool, dry, well-ventilated area at 40° - 90°F (5° - 32°C) is recommended.

**GENERAL**

Keep in original closed containers.  
Prevent skin and eye contact.  
Thorough showering at the end of the work shift is strongly recommended.  
Work clothes should be laundered daily.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**PERSONAL PROTECTION**

**RESPIRATORY PROTECTION**

No respiratory protection is normally required. However, if material becomes dry and dust is present, use a NIOSH approved dust respirator

**PROTECTIVE CLOTHING**

Prevent skin contact. Use rubber or latex gloves.

**EYE/FACE PROTECTION**

Use safety glasses or chemical goggles.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Vapor Pressure:	Not available	Freezing Point:	32°F (0°C)
Vapor Density:	Not available	Appearance:	White
Specific Gravity:	1.2-1.3	Boiling Point:	212°F (0°C)
Evaporation Rate:	Not available	Odor:	None
Solubility in Water:	None	Physical State:	Liquid dispersion
pH:	4-9		

**10. STABILITY AND REACTIVITY**

**GENERAL**

This product is stable at normal temperatures and conditions of storage.

**INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID**

Freezing.

**HAZARDOUS DECOMPOSITION**

None known.

**HAZARDOUS POLYMERIZATION**

Will not normally occur.

**11. TOXICOLOGICAL INFORMATION**

**INHALATION**

No additional information available.

**EYE CONTACT**

No additional information available.

**SKIN CONTACT**

No additional information available.

**INGESTION**

LD<sub>50</sub>, rat: 3160 mg/kg, practically non-toxic.

**GENOTOXICITY**

No information available.

**TARGET ORGANS**

Skin, eyes, lungs.

**12. ECOLOGICAL INFORMATION**

**FATE**

No information available

**AQUATIC TOXICITY**

No information available

**13. DISPOSAL CONSIDERATIONS**

**DISPOSAL METHODS**

Consult 40 CFR, Parts 261 and 268, State, and local regulations for guidance on disposal of this product. Incineration at a facility with proper Federal and State issued permits is the recommended method for disposal.

**CONTAINER DISPOSAL**

Empty containers retain product residue. Observe all hazard precautions. Keep away from heat, sparks, and flames. Do not distribute, make available, or reuse empty containers except for storage and shipment of original product. Remove all hazardous product residue, and puncture or otherwise destroy empty containers before disposal. Consult 40 CFR, Parts 261 and 268 for guidance on disposal.

**14. TRANSPORT INFORMATION**

**DOT/IMO/ICAO/ATA**

Proper shipping name      Not Regulated

**15. REGULATORY INFORMATION**

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

Components of this product are listed on the TSCA Inventory.

Name: **MICROPLANAR™ CMP9000™**

Revision New- Prepared May 13, 1999

Page 5 of 5

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

311/312 Hazard Categories  
313

None

This product is not subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION AND LIABILITY ACT)**

Reportable Quantity (RQ): None

We recommend you contact local authorities to determine if there may be other local reporting requirements.

**16. OTHER INFORMATION**

Exposure to Microplanar™ CMP9000™ should be kept to the lowest level possible. This material is for industrial use. Use only under the supervision of a technically qualified individual.

**LABEL INFORMATION**

**NFPA CODES**

Health	1
Fire	0
Reactivity	0
Specific Hazard	None

**REVISION SUMMARY**

Rev. New

Prepared by: Steven C. Dawson, CIH  
Manager, Industrial Hygiene & Health

The information included in this document is taken from sources, or based on data believed to be reliable and given in good faith. No warranty is made, however, as to the absolute correctness of any of this information, or that additional or other measures may not be required under particular conditions. The data in this Material Safety Data Sheet relates only to the specific material designated and does not relate to use in combination with any other material or in any process. Please refer to the OSHA Hazard Communication Standard 29 CFR 1910.1200 for guidance in the use of this information.

## ATTACHMENT B

Material Safety Data Sheet for  
MICROPLANAR<sup>TM</sup> CMP9001<sup>TM</sup>  
sold by EKC Technology, Inc. of Hayward, CA

# Data Sheet

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: **MICROPLANAR™ CMP9001™**  
General Use: Tungsten CMP  
Product Description: Aqueous Alumina Slurry

MANUFACTURER: **EMERGENCY PHONE NUMBERS:**  
EKC Technology, Inc. (800) 424-9300  
2520 Barrington Court CHEMTREC  
Hayward, CA 94545 24 Hours/day, 7 days/week  
(510) 784-9105

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

	WT.%	CAS Registry #
	Proprietary	Trade Secret
<b>EXPOSURE LIMITS 8 hrs. TWA (mg/m<sup>3</sup>)</b>		
Alumina	OSHA PEL	ACGIH TLV
Alumina	15	10
		DFG MAK
		6

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

Milky white suspension with no odor. May cause eye irritation and drying of the skin.

### POTENTIAL HEALTH EFFECTS

#### INHALATION

No adverse effects known.

#### EYE CONTACT

May cause irritation.

#### SKIN CONTACT

May cause drying of the skin.

#### INGESTION

Not expected to be a hazard by this route.

### TARGET ORGANS

Skin, eyes

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Overexposure may aggravate existing skin conditions.

### CARCINOGENICITY

National Toxicology Program (NTP): Not listed  
IARC Monographs: Not listed  
OSHA: Not listed  
ACGIH: Not listed



2520 Barrington Court  
Hayward, CA 94545  
tel. +1 510 784-9105  
facsimile +1 510 784-9181

**4. FIRST AID MEASURES****INHALATION**

None required.

**EYE CONTACT**

Immediately flush eyes with water. Have eyes examined and treated by a physician.

**SKIN CONTACT**

Flush skin with water. If redness or irritation occurs, seek medical attention.

**INGESTION**

Flush mouth with water. Consult a physician.

**NOTE TO PHYSICIAN**

Treat symptomatically as indicated by the condition of the patient.

**5. FIRE FIGHTING MEASURES**

Flashpoint:	None
Method:	None
Flammable Limits in Air % by volume	Lower: None Upper: None
Autoignition Temperature:	None
Extinguishing Media:	None required.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

No special precautions are necessary.

**FIRE FIGHTING INSTRUCTIONS**

Non-flammable

**FIRE FIGHTING EQUIPMENT**

Non-flammable

**HAZARDOUS COMBUSTION PRODUCTS**

None

**6. ACCIDENTAL RELEASE MEASURES****SPILL OR LEAK PROCEDURES**

If material becomes dry, wet before removal. Contain spill with absorbent material. Transfer absorbent and other contaminated materials to a UN approved covered container for disposal. Consult with Federal, State, and local regulatory agencies to determine acceptable clean-up levels. Comply with Federal, State, and local regulations on reporting releases.

**7. HANDLING AND STORAGE****STORAGE TEMPERATURE**

Do not store below 32°F (0°C).

**GENERAL**

Keep in original closed containers.  
Prevent skin and eye contact.  
Thorough showering at the end of the work shift is strongly recommended.  
Work clothes should be laundered daily.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****PERSONAL PROTECTION****RESPIRATORY PROTECTION**

No respiratory protection is normally required. However, if material becomes dry and dust is present, use a NIOSH approved dust respirator.

**PROTECTIVE CLOTHING**

Prevent skin contact. Wear chemical resistant gloves.

**EYE/FACE PROTECTION**

Use safety glasses or chemical goggles.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Vapor Pressure:	Not available	pH:	8
Vapor Density:	>1 (Air = 1)	Appearance:	Milky-white
Specific Gravity:	1.13 @ 25°C	Boiling Point:	212°F (100°C)
Evaporation Rate:	Not available	Odor:	None
Solubility in Water:	Insoluble solids	Physical State:	Slurry

**10. STABILITY AND REACTIVITY****GENERAL**

This product is stable at normal temperatures and conditions of storage.

**INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID**

None have been identified.

**HAZARDOUS DECOMPOSITION**

None

**HAZARDOUS POLYMERIZATION**

Will not normally occur.

**11. TOXICOLOGICAL INFORMATION****DATA FOR MICROPLANAR™ CMP9001™****INHALATION**

No information is available.

**EYE CONTACT**

No information is available.

**SKIN CONTACT**

No information is available.

**INGESTION**

No information is available.

**GENOTOXICITY**

No information is available.

**TARGET ORGANS**

Eyes and skin

**12. ECOLOGICAL INFORMATION****DATA FOR MICROPLANAR™ CMP9001™****FATE**

Contains inert mineral product that is insoluble in water and settles easily.

**AQUATIC TOXICITY**

No information is available.

**13. DISPOSAL CONSIDERATIONS****DISPOSAL METHODS**

Consult 40 CFR, Parts 261 and 268, State, and local regulations for guidance on disposal of this product. Incineration at a facility with appropriate permits or authorizations is the recommended method of disposal.

**CONTAINER DISPOSAL**

Empty containers retain product residue. Observe all hazard precautions. Do not distribute, make available, or reuse empty containers except for storage and shipment of original product. Remove all hazardous product residue, and puncture or otherwise destroy empty containers before disposal.

**14. TRANSPORT INFORMATION****IMO/ICAO/IATA**

Proper shipping name	Not regulated
Hazard Class	None
Identification number	None
Packing group	None
Labels required	None
IMDG page number	None

**15. REGULATORY INFORMATION****TSCA (TOXIC SUBSTANCE CONTROL ACT)**

Components of this product are listed on the TSCA Inventory.

We recommend you contact local authorities to determine if there may be other local reporting requirements.

**SARA TITLE III (Superfund Amendments and Reauthorization Act)**

311/312	None
Hazard	
Categories	

This product contains no substances that are subject to reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

### CERCLA (Comprehensive Response Compensation and Liability Act)

Not reportable.

We recommend that you contact local authorities to determine if there may be other local reporting requirements.

### 16. OTHER INFORMATION

Because the long-term human health effects from exposure to MICROPLANAR™ CMP9001™ have not been fully evaluated, exposure should be kept to the lowest level possible.

This material is for industrial use. Use only under the supervision of a technically qualified individual.

### LABEL INFORMATION

#### NFPA CODES

Health	1
Fire	0
Reactivity	0
Specific Hazard	None

#### REVISION SUMMARY

Rev. New Initial MSDS

Prepared by: Steven C. Dawson, CIH  
Manager, Industrial Hygiene & Health

The information included in this document is taken from sources, or based on data believed to be reliable and given in good faith. No warranty is made, however, as to the absolute correctness of any of this information, or that additional or other measures may not be required under particular conditions. The data in this Material Safety Data Sheet relates only to the specific material designated and does not relate to use in combination with any other material or in any process.